



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4440-1**Job Sheet 188754****Part No:** D4440-1**Job Qty:** 250 pcs**Part Name:** Grommet**Part Weight:** 0 lbs**Status:** New**Priority:** Medium**Job Created:** 1/15/19**Job Tracking No:****Due Date:** 1/31/19**Created By:** Marie Lajeunesse**Type:** SOLD**Description:**

Note: DWG REV A IPP REV:A 11.10.05 NEW ISSUE DD VERF:EC IPP RevB 11.12.22 per PA2 EC verified by:JLM
IPP REV:C 12.1.23 AS PER REV.A DD VERF:EC

Ship Via:**Bill of Materials****Job Routing**

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	250 pcs	1/31/19	1/31/19	0.00	0.00	Purchasing - 1		JAN 28 2019
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	250 pcs	1/31/19	1/31/19	0.00	0.00	Packaging 2 - 1 - B4B		JAN 28 2019
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		

**Container No:** S148619**Part:** D4440-1**Job No:** 188754**Serial No/Batch:** S148619**Revision:****Inspector:****Exp Date:****Instructions:** Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 01/28/19

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor		
			QC / QA Coordinator		
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	DAS
120 QC 6	250 pcs	1/31/19	0.00 0.00	QC 6 - 38	DAS 38
				QC 6 - 42	9-89
				QC 6 - 9	
				QC 6 - 68	
				QC 6 - 61	
130 Packaging 3-1 - Stock - B4B	250 pcs	1/31/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	DAS
				Packaging 3 - 6 - B4B	28
				Packaging 3 - 7 - B4B	9-89
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
140 QC 21 - SA	250 pcs	1/31/19	0.00 0.00	QC 21 - SA - 21	DAS JAN 31 2019
				QC 21 - SA - 70	21
Part Op 110 - (Receive & Inspect for Damage & Mat'l Certs) Descriptions: 120 - (QC6- All purchased or subcontracted products) 130 - (Identify as per dwg & Stock Location: _____) 140 - (QC21- Final Inspection - Work Order Release)					JAN 17 2019 9-89 DAS 13 9-89
X250 P/O: 042307					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
GRD21625375PA	Diaphragm Grommet D4440-1	250 pcs (1 ea)	100-Purchasing	5148618	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-Purchasing	GRD21625375PA	250	0	0	
Part Specifications					
Specifications could not be found.					

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Entered: _____ Date: _____

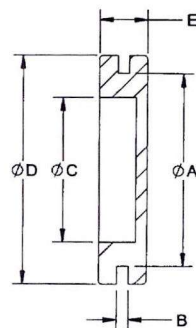


WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

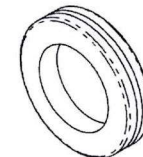
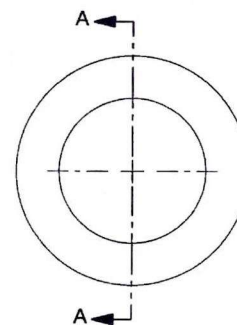
NCR No. _____

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Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
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				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



SECTION A-A



SHOP COPY
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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 188754115
1901-15

D4440-X GROMMET

DART PART NUMBER	DESCRIPTION	SUPPLIER PART NUMBER	STYLE NUMBER	SUPPLIER	MATERIAL	COLOR	A	B	C	D	E
D4440-1	GROMMET	GRD21625375PA	2	ALLIANCE	PVC (54-62 Shore A) or TPR (55 Shore A)	BLACK	1.63	0.094	1.22	1.93	0.4

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A lbs

RELEASED
2012-07-23

A		NEW ISSUE		RF	12.01.17
REV.	DESCRIPTION			BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4440 TITLE GROMMET		REV. A	
DRAWN	RF			SHEET 1 OF 1	
CHECKED	RF			SCALE	
MFG. APPR.	RF			NTS	
APPROVED	RF				
DE APPR.	RF				
DATE		12.01.17			

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042307



Supplier: ESS002-VC
Essentra Components
P.O. Box 9900 T-9915, Postal Station A
Toronto
ON
M5M 2J2 Canada

Attention: Farrelly, Jeff

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042307

PO Date: 1/17/19

Due Date: 1/28/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
JAN 17 2019

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	188754	GRD21625375PA	250/pk	Diaphragm Grommet D4440-1 As per Dwg D4440 Rev. A	Firmed	-	1/28/19	250 pcs	0 pcs	250 pcs	\$2.8963/pcs	\$724.08
2		BLRS-002		Quick Release Pin (3/16" X 1.5")	Firmed	-	1/28/19	4 pcs	0 pcs	4 pcs	\$41.589/pcs	\$166.36
3		BLRS-010		Quick Release Pin (1/4" X 1")	Firmed	-	1/28/19	2 pcs	0 pcs	2 pcs	\$32.856/pcs	\$65.71
4		BNT137	1/pk	Bronze Bushing receive pcs	Firmed	-	1/28/19	5 pcs	0 pcs	5 pcs	\$1.5198/pcs	\$7.60
5		CBL-460		Loop Sleeve	Firmed	-	1/28/19	300 pcs	0 pcs	300 pcs	\$0.3382/pcs	\$101.46
6		FNC-3	10/pk	Collar Nut	Firmed	-	1/28/19	10 Ea	0 Ea	10 Ea	\$3.14/Ea	\$31.40
7		FS-10		Forged Eye Bolt	Firmed	-	1/28/19	10 Ea	0 Ea	10 Ea	\$34.0521/Ea	\$340.52
8		SKF-9040		Banded Thrust Bearing	Firmed	-	1/28/19	5 Ea	0 Ea	5 Ea	\$8.51/Ea	\$42.55
Grand Total:											\$1,479.67	

DAS
38
9-89



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PURCHASE ORDER

PO042307



Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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Essentra Components
2538 Speers Road, Unit 7
Oakville, ON L6L 5K9
Phone: 905-825-0134
Fax: 905-825-2919
www.essentracomponents.com

Packing List
LOAD NUMBER 267212
SID/INV 112859
CUSTOMER PO PO042307
ORDER NUMBER 2837466
CARRIER Fed Ex Ground
SHIP DATE 01/24/19
FOB DESCRIPTION COL

SOLD TO 422854

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7
CANADA

DELIVERY TO 422854

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7
CANADA

LINE NO	PART NO. DESCRIPTION	ORIGINAL QUANTITY	QUANTITY SHIPPED	CTNS	NET WEIGHT	TOTAL WEIGHT
1	GRD21625375PA DIAPHRAGM GROMMET:TPR BLACK 1.65" HOLE X 0.094" 1000 BOX Cust Order #: PO042307 Country Of Origin: UK	.250	.250	1	2.71	29.71
2	BLRS-002A B154873 3/16 X 1-1/2 SS BL PIN R - HANDLE Cust Order #: PO042307 Country Of Origin: US	4.000	4.000	4	.10	1.10
3	BLRS-010A 1/4 X 1 SS BL PIN R-HANDLE Cust Order #: PO042307 Country Of Origin: US	2.000	2.000	2	.10	1.10
4	BNT-137 3/8 ID X 9/16 OD X 1 LG BRG	5.000	5.000	5	.17	1.17

All sales/purchases described herein are subject to Essentra's terms and conditions located at <http://www.essentracomponents.com/en-ca/terms-and-conditions-of-sale>, as amended from time to time, and made a part hereof ("Terms and Conditions"). Essentra disclaims and rejects any additional terms and conditions proposed by Customer and the same shall not be binding upon Essentra, regardless of when submitted. Customer's acceptance of the sales/purchases described herein and said Terms and Conditions may be confirmed in writing or any verbal or physical manifestation of acceptance, including, but not limited to, Customer's receipt of goods or payment to Essentra for the sales/purchases described herein.

Certificate of Compliance

This is to certify that the above material shipped against your purchase order is in conformance with all known requirements, specifications and drawings in effect at the time of manufacture. All applicable physical, functional, dimensional and material test reports are on file at our facility, and may be inspected by your representative upon request.

Rick Simon

Quality Assurance Manager



Essentra Components
2538 Speers Road, Unit 7
Oakville, ON L6L 5K9
Phone: 905-825-0134
Fax: 905-825-2919
www.essentracomponents.com

Packing List
LOAD NUMBER 267212
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CUSTOMER PO PO042307
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CANADA

DELIVERY TO 422854

Dart Aerospace Ltd
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CANADA

LINE NO	PART NO. DESCRIPTION	ORIGINAL QUANTITY	QUANTITY SHIPPED	CTNS	NET WEIGHT	TOTAL WEIGHT
5	SAE 841 ✓ Cust Order #: PO042307 Country Of Origin: US CBL-460 ✓ LOOP SLEEVE Z.P.COPPER LOOP SLEEVE FOR 1/16" CABLE Cust Order #: PO042307 Country Of Origin: US	300.000	300.000	300 ✓ 301	.90	1.90
6	FNC-3 ✓ FLANGE NUT 3/8-16 Cust Order #: PO042307 Country Of Origin: US	10.000	10.000	10 ✓	.56	1.56
7	FS-10 ✓ THREADED EYE BOLT 1-8 Cust Order #: PO042307 Country Of Origin: US	10.000	1.000	1 ✓	2.43	3.43
8	SKF-9040 ✓	5.000	5.000	56	.30	1.30

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CANADA

DELIVERY TO 422854

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Hawkesbury, ON K6A 1K7
CANADA

LINE NO	PART NO. DESCRIPTION	ORIGINAL QUANTITY	QUANTITY SHIPPED	CTNS	NET WEIGHT	TOTAL WEIGHT
	UNGROUND THRUST BRG UNGROUND THRUST BRG Cust Order #: PO042307 Country Of Origin: US SHIPPED PARTIAL IN 1 CARTON FED EX ACCT # 1517-9324-0					

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Quality Assurance Manager